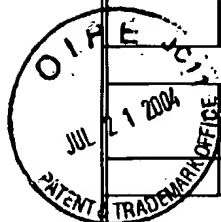
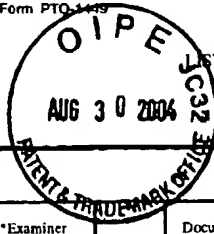

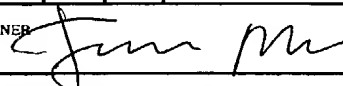


Form PTO-1449		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. 30-5004DIV3		SERIAL NO. 09/912,616	
LIST OF ART CITED BY APPLICANT (Use several sheets if necessary)				APPLICANT Vladimir Segal et al.			
				FILING DATE July 24, 2001		GROUP 1742	
U.S. PATENT DOCUMENTS							
*Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate	
AA							
FOREIGN PATENT DOCUMENTS							
Document Number	Date	Country	Class	Subclass	Translation		
AM	JP362089543A	04-1987	JP (abstract)	—	—	Yes	No
OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, Etc.)							
AO	F. J. Humphreys et al., "Developing stable fine-grain microstructures by large strain deformation", Phil. Trans. R. Soc. Lond. A, June 15, 1999, Vol. 357 #1756, pp. 1663-1681.						
AP	S. Ferrasse et al., "Texture evolution during equal channel angular extrusion Part I. Effect of route, number of passes and initial texture", Materials Science and Engineering, Vol. 368, March 15, 2004, pp. 28-40.						
AQ	V.M. Segal, "Equal channel angular extrusion: from macromechanics to structure formation", Materials Science & Engineering A271, November 1, 1999, pp. 322-333.						
AR	Ruslan Z. Valiev et al., "SPD-Processed Ultra-Fine Grained Ti Materials for Medical Applications", Advanced Materials & Processes, December 2003, pp. 33-34.						
AS	Segal et al., "Plastic Working of Metals by Simple Shear", Russian Metall. Vol. 1, pp. 99-105, 1991.						
AT	M. Furukawa et al., "Microhardness Measurements and the Hall-Petch Relationship in an Al-Mg Alloy with Submicrometer Grain Size", Acta Mater. Vol. 44, No. 11, pp. 4619-4629, 1996.						
AU	Yoshinori Iwakashi et al., "Microstructural Characteristics of Ultrafine-Grained Aluminum Produced Using Equal-Channel Angular Pressing", Metallurgical and Materials Transactions, Vol. 29A, pp. 2245-2252, September 1998.						
AV	R.Z. Valiev et al., "Bulk Nanostructured materials from severe plastic deformation", Progress in Materials Science, Vol. 45, 2000, pp. 103-189.						
AW	S. Ferrasse et al., "ECAE Targets with Sub-Micron Grain Structures Improve Sputtering Performance and Cost-of-Ownership", Semiconductor Manufacturing, Vol. 4, Issue 10, October 2003, pp. 76-92.						
EXAMINER <i>Jim</i>				DATE CONSIDERED 11/12/04			
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							

2/2

Form PTO-1449		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. 30-5004DIV3		SERIAL NO. 09/912,616	
LIST OF ART CITED BY APPLICANT (Use several sheets if necessary)				APPLICANT Vladimir Segal et al.			
				FILING DATE July 24, 2001		GROUP 1742	
U.S. PATENT DOCUMENTS							
*Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate	
AA							
FOREIGN PATENT DOCUMENTS							
	Document Number	Date	Country	Class	Subclass	Translation	
						Yes	No
AM							
OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, Etc.)							
jm	AO		Clark et al., "Influence of Initial Ingot Breakdown on the Microstructural and Textural Development of High Purity Tantalum", Metallurgical Transactions, vol. 22A, pp. 2959-2968, December 1991.				
jm	AP		Lyman et al., Metals Handbook, pub. by American Society for Metals, 8 th edition, 1961, pp. 15 and 18.				
jm	AQ		Ferrasse et al., "Microstructure and Properties of Copper and Aluminum Alloy 3003 Heavily Worked by Equal Channel Angular Extrusion", Metallurgical and Materials Transactions A, Volume 28A, April 1997, pp. 1047-1057.				
jm	AR		R. Z. Valiev et al., "Plastic Deformation of alloys with submicron-grained structure", Materials Science and Engineering, A137 (1991) pp. 35-40.				
	AS						
	AT						
	AU						
	AV						
	AW						
EXAMINER <i>jm</i>				DATE CONSIDERED 11/12/04			
<small>*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.</small>							



Form PTO-1449 		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. 30-5004DIV3		SERIAL NO. 09/912,616	
LIST OF ART CITED BY APPLICANT (Use several sheets if necessary)				APPLICANT Vladimir Segal et al.			
FILING DATE July 24, 2001				GROUP 1742			
U.S. PATENT DOCUMENTS							
*Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate	
AA							
FOREIGN PATENT DOCUMENTS							
	Document Number	Date	Country	Class	Subclass	Translation	
						Yes	No
AM							
OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, Etc.)							
	AO		V. M. Segal et al., "Processes of Plastic Structure Formation", Science and Engineering, 1994, published in Russia, Chapters 1, 3 and 4, with Statement in Accordance with 37 CFR 1.98(a)(3)(i).				
	AP						
	AQ						
	AR						
	AS						
	AT						
	AU						
	AV						
	AW						
EXAMINER 			DATE CONSIDERED 11/12/04				
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							